LALLEMAND BIOFUEL & DISTILLED SPIRITS

Spartec® AMY 110

Lower viscosity and higher ethanol yield. Performance driven forward.

Spartec® AMY 110 is the next-generation alpha-amylase for starch liquefaction for the production of fuel ethanol. With improved viscosity reduction, plants can run at higher rates to achieve higher ethanol and corn oil yields.

Due to its unique mode of action, Spartec® AMY 110 delivers a more uniform sugar profile to fermentation.

Spartec® AMY 110 – Key advantages

- Lower viscosity allowing plants to run at higher rates
- Increased fuel ethanol yield
- Higher corn oil yield

Application

Spartec® AMY 110 is used for liquefaction of corn, barley, sorghum/milo, wheat and other starch-based mashes and slurries in the production of fuel ethanol. Spartec® AMY 110 performs best over a temperature range of 176–203 °F (80–95 °C) and over a pH range of 4.5–6.0, and can be used effectively up to 220 °F.

Increased yield in slurry/liquefaction

	Plant A	Plant B	Plant C
Ethanol at Drop per Fill Solids	1.7%	3.0%	2.1%
Extracted Oil	10.8%	4–5%	1–2%

Characteristics

- Appearance: Amber to brown liquid
- Density: 1.05–1.15 g/mL
- pH: 7.3
- Enzyme name: Alpha-amylase (EC 3.2.1.1)

Storage And Stability

- Spartec® AMY 110 is stable for at least 12 months when stored in its original sealed container at an ambient temperature of 77 °F (25 °C).
- Spartec® AMY 110 should not be frozen.
- Storage at 39–46 °F (4–8 °C) will extend the shelf life of the enzyme.
- Keep container closed when enzyme is not in use.

Package Sizes

Spartec® AMY 110 is available in bulk quantities and in 1,000 kg recyclable polyethylene totes.

Handling

Provide adequate ventilation. Wear protective goggles, chemical resistant gloves, coveralls or apron, and boots as necessary to prevent contact during handling.

In case of accidental contact with skin or eyes flush with water.

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